MAJORIS G407

Polypropylene

AD majoris

Message:

MAJORIS G407 is a special long glass fibre reinforced polypropylene grade, for injection moulding and extrusion. The long glass fibres, chemically coupled to the polypropylene matrix, are providing with outstanding mechanical properties. This product is UV stabilised.
MAJORIS G407 is available both in natural (MAJORIS G407) and black (MAJORIS G407-8229). Other colours can be provided on request.
APPLICATIONS
MAJORIS G407 is intended for injection moulding of highly demanding technical applications.
The excellent properties of MAJORIS G407 make it suitable for:
Electrical components, automotive parts, interior, exterior and under the bonnet, structural furniture parts, load bearing, demanding components for various engineering sectors.
MAJORIS G407 can, in many of these applications, substitute other engineering plastics or metal alloys.

General Information	
Filler / Reinforcement	Long glass fiber
Additive	heat stabilizer
	UV stabilizer
Features	Chemical coupling
	Good UV resistance
	Recyclable materials
	Heat resistance, high
	Thermal Stability
Uses	Electrical components
	Furniture
	Metal substitution
	Parts under the hood of a car
	Car interior parts
	Automotive exterior parts
Appearance	Black
	Available colors
	Natural color
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm³	ISO 1183
Molding Shrinkage	0.40	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8650	MPa	ISO 527-2/1
Tensile Stress (Break)	129	MPa	ISO 527-2/50
Tensile Strain (Break)	2.2	%	ISO 527-2/50
Flexural Modulus	7700	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	27	kJ/m^2	ISO 179/1eA
23°C	24	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	52	kJ/m^2	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	162	°C	ISO 75-2/B
Vicat Softening Temperature	145	°C	ISO 306/B
CLTE - Flow			ASTM D696
-30°C	4.4E-5	cm/cm/°C	ASTM D696
23°C	3.1E-5	cm/cm/°C	ASTM D696
Injection	**Nominal Value**	**Unit**	
Rear Temperature	230 - 250	°C	
Processing (Melt) Temp	250 - 280	°C	
Mold Temperature	80.0 - 100	°C	
Injection Pressure	30.0 - 60.0	MPa	
Injection Rate	Slow		
Screw Speed	30 - 150	rpm	

Injection instructions

Holding pressure: 50 to 70% of the injection pressureBack pressure: as low as possible, 0 to 10%Holding time: as long as practical

Recommended distributors for this material

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